This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Method of obtaining ⁶⁸Ga by contacting the eluate from a ⁶⁸Ge/⁶⁸Ga generator

with an anion exchanger comprising HCO₃ as counterions and eluting ⁶⁸Ga from said

anion exchanger.

2. (Original) Method according to claim 1 wherein the ⁶⁸Ge/⁶⁸Ga generator comprises a

column comprising titanium dioxide.

3. (Original) Method according to claim 1 wherein 0.05 to 5 M HCl is used to elute ⁶⁸Ga

from the ⁶⁸Ge/⁶⁸Ga generator.

4. (Original) Method according to claim 2 wherein 0.05 to 0.1 M HCl is used to elute $^{68}\mathrm{Ga}$

from the ⁶⁸Ge/⁶⁸Ga generator.

5. (Previously presented) Method according to claim 1 wherein water is used to elute ⁶⁸Ga

from the anion exchanger.

6. (Currently amended) Method according to claim 1 wherein the anion exchanger is a

strong anion exchanger comprising quaternary amine functional groups.

7. (Currently amended) Method according to claim 1 wherein the anion exchanger is a

strong anion exchange resin based on polystyrene-divinylbenzene.

8. (Previously presented) Method of producing a ⁶⁸Ga-radiolabelled complex by reacting

⁶⁸Ga obtained by the method according to claim 1 with a chelating agent.

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9. (Original) Method according to claim 8 wherein the chelating agent is a macrocyclic

chelating agent.

10. (Previously presented) Method according to claim 8 wherein the chelating agent

comprises hard donor atoms, preferably O and N.

11. (Previously presented) Method according to claim 8 wherein the chelating agent is a

bifunctional chelating agent

12. (Original) Method according to claim 11 wherein the chelating agent is a bifunctional

chelating agent comprising a targeting vector selected from the group consisting of

proteins, glycoproteins, lipoproteins, polypeptides, glycopolypeptides, lipopolypeptides,

peptides, glycopeptides, lipopeptides, carbohydrates, nucleic acids, oligonucleotides or a

part, a fragment, a derivative or a complex of the aforesaid compounds and small organic

molecules.

13. (Previously presented) Method according to claim 8 wherein the reaction is carried out

using microwave activation.

14. (Previously presented) Method according to claim 8 for the production of ⁶⁸Ga-

radiolabelled PET tracers.

15. (Original) Kit for the preparation of ⁶⁸Ga from a ⁶⁸Ge/⁶⁸Ga generator, which comprises a

generator column and a second column that comprises an anion exchanger comprising

HCO₃ as counterions.

16. (Original) Kit according to claim 15 further comprising means to couple the columns in

series.

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17. (Previously presented) Kit according to claim 15 further comprising aqueous HCl to elute the ⁶⁸Ga from the generator column and/or water to elute the ⁶⁸Ga from the anion exchanger column, preferably, the HCl and the water being aseptically and in a hermetically sealed container.

- 18. (Previously presented) Kit according to claim 15 further comprising a chelating agent, preferably a bifunctional chelating agent.
- 19. (Currently amended) A method of using Use of a kit according to claim 18 for the production of ⁶⁸Ga-radiolabelled PET tracers, comprising producing a ⁶⁸Ga-radiolabelled complex by reacting ⁶⁸Ga obtained by the method according to claim 1 with the chelating agent.